

## II B. Tech II Semester Regular Examinations, June/July - 2022

## JAVA PROGRAMMING

(Common to CSE,IT,CSE(CSBS),&amp;CS)

Time: 3 hours

Max. Marks: 70

Answer any **FIVE** Questions each Question from each unitAll Questions carry **Equal** Marks

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**UNIT-I**

- 1 a) List and explain the Tokens in the Java language. [7M]  
 b) Demonstrate Bitwise operators using a Java program. [7M]

**Or**

- 2 a) List and explain the control statements with examples. [7M]  
 b) Demonstrate the operator precedence using a Java program. [7M]

**UNIT-II**

- 3 a) Compare the working of constructor overloading with method overloading. [7M]  
 b) Demonstrate method overriding with an example java program. [7M]

**Or**

- 4 a) Compare the pass-by-value with the pass-by-reference method using an example. [7M]  
 b) Demonstrate Nested class concept with an example. [7M]

**UNIT-III**

- 5 a) Is it possible to implement multiple inheritances in Java? Justify your answer. [7M]  
 b) Develop a Java program to perform Binary search. [7M]

**Or**

- 6 a) Demonstrate the Nested Interfaces using an example program. [7M]  
 b) Develop a program to perform matrices multiplication. [7M]

**UNIT-IV**

- 7 a) Discuss the advantages of Wrapper classes. [7M]  
 b) Demonstrate the class Throwable with the help of a Java program. [7M]

**Or**

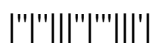
- 8 a) Is it possible to Rethrow exceptions? Justify your answer. [7M]  
 b) List and explain any four packages in Java language. [7M]

**UNIT-V**

- 9 a) Discuss the issues of Race condition and Deadlock. [7M]  
 b) Demonstrate Inter-thread communication with a Java program. [7M]

**Or**

- 10 a) Develop a JDBC application to establish a link between MySQL and Java to save and access a table. [7M]  
 b) List and explain any three methods of a String class. [7M]



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**UNIT-I**

- 1 a) List and explain the Data types in Java program with examples. [7M]  
 b) Demonstrate the Increment and Decrement operators with a Java program. [7M]

**Or**

- 2 a) Develop a Java program to perform string reverse operations. [7M]  
 b) Compare the working of the while loop and do-while loop with suitable examples. [7M]

**UNIT-II**

- 3 a) Demonstrate pass-by-reference with an example program. [7M]  
 b) Develop a program to carry out withdrawal operations in ATM. [7M]

**Or**

- 4 a) Develop a method that initializes the attributes of an object. [7M]  
 b) Discuss the advantage of This keyword with an example Java program. [7M]

**UNIT-III**

- 5 a) Discuss the advantage of the Method overriding. [7M]  
 b) Develop a program to apply merge sort on array elements. [7M]

**Or**

- 6 a) Compare the features of Array with Vector. [7M]  
 b) Demonstrate dynamic method dispatch with an example program. [7M]

**UNIT-IV**

- 7 a) Demonstrate Auto boxing and Auto unboxing with an example program. [7M]  
 b) Demonstrate Checked exceptions with an example Java program. [7M]

**Or**

- 8 a) List and explain the blocks of Exception handling with examples. [7M]  
 b) Explain any two classes with method in Java.lang package. [7M]

**UNIT-V**

- 9 a) Is there is a need for multi-threading? Justify your answer. [7M]  
 b) Illustrate JDBC architecture with a neat sketch. [7M]

**Or**

- 10 a) Explain the concepts Deadlock and race condition. [7M]  
 b) List and explain any three methods of String class. [7M]



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**UNIT-I**

- 1 a) List and explain the features of Java language. [7M]  
 b) Demonstrate Nested if and else using an example. [7M]

**Or**

- 2 a) List and explain the formatted input and output statements. [7M]  
 b) Demonstrate implicit and explicit type casting with an example program. [7M]

**UNIT-II**

- 3 a) Develop a program to compute the GCD of two numbers using Recursion. [7M]  
 b) Discuss the advantage of final and static attributes. [7M]

**Or**

- 4 a) Is it possible to access Private members of a class? Justify your answer. [7M]  
 b) Demonstrate pass-by-value with an example Java program. [7M]

**UNIT-III**

- 5 a) Discuss the advantage of the Super keyword with a Java program. [7M]  
 b) Develop a Java program to read students' six subject marks and computes the aggregate (%). [7M]

**Or**

- 6 a) Demonstrate multi-level inheritance with an example program. [7M]  
 b) Develop a program to declare and access the three-dimensional arrays. [7M]

**UNIT-IV**

- 7 a) Is it possible to define multiple catch blocks in Java? Justify your answer. [7M]  
 b) Demonstrate Wrapper classes in Java language. [7M]

**Or**

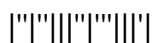
- 8 a) Demonstrate the formatting for Date / Time in Java with an example program. [7M]  
 b) Discuss the importance of Throws keyword. [7M]

**UNIT-V**

- 9 a) Develop a Java program to sort the set of input strings. [7M]  
 b) Demonstrate Thread prioritization with an example program. [7M]

**Or**

- 10 a) Explain the steps to establish MySQL with Java. [7M]  
 b) Illustrate the possible states of Thread with a suitable diagram. [7M]



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**UNIT-I**

- 1 a) Explain the usage of Static variables and methods with an example Java program. [7M]  
 b) List and explain the Unary, Binary and Ternary operators with examples. [7M]

**Or**

- 2 a) Demonstrate logical operators with an example Java program. [7M]  
 b) Develop a program to compute factorial of a number. [7M]

**UNIT-II**

- 3 a) Demonstrate the Final method with an example. [7M]  
 b) Discuss the advantage of a constructor. [7M]

**Or**

- 4 a) Define recursion. Discuss the advantages of recursion. [7M]  
 b) Is it possible to define a class within another class? Justify your answer. [7M]

**UNIT-III**

- 5 a) Illustrate types of Inheritance with a suitable diagram. [7M]  
 b) Discuss the advantages of the Interface. [7M]

**Or**

- 6 a) Develop a program to compute the inverse of a given matrix. [7M]  
 b) Demonstrate multiple Inheritance with an example Java program. [7M]

**UNIT-IV**

- 7 a) Demonstrate unchecked and checked exceptions with an example program. [7M]  
 b) Is it possible to Rethrow exceptions? Justify your answer. [7M]

**Or**

- 8 a) Illustrate the Hierarchy of standard Exception class with a neat sketch. [7M]  
 b) Demonstrate Temporal Adjusters class with an example Java program. [7M]

**UNIT-V**

- 9 a) Illustrate the JDBC architecture with a neat sketch. [7M]  
 b) Demonstrate Thread prioritization with a Java Program. [7M]

**Or**

- 10 a) Propose any solutions to Deadlock and Race condition issues. [7M]  
 b) Illustrate the Thread states transitions with a neat sketch. [7M]

